

Figure 1

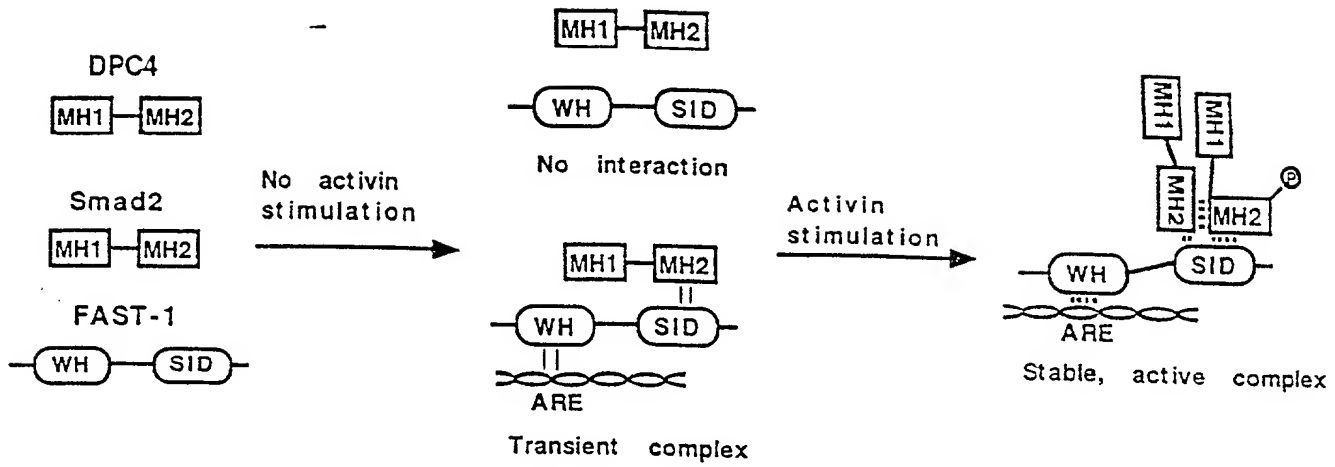
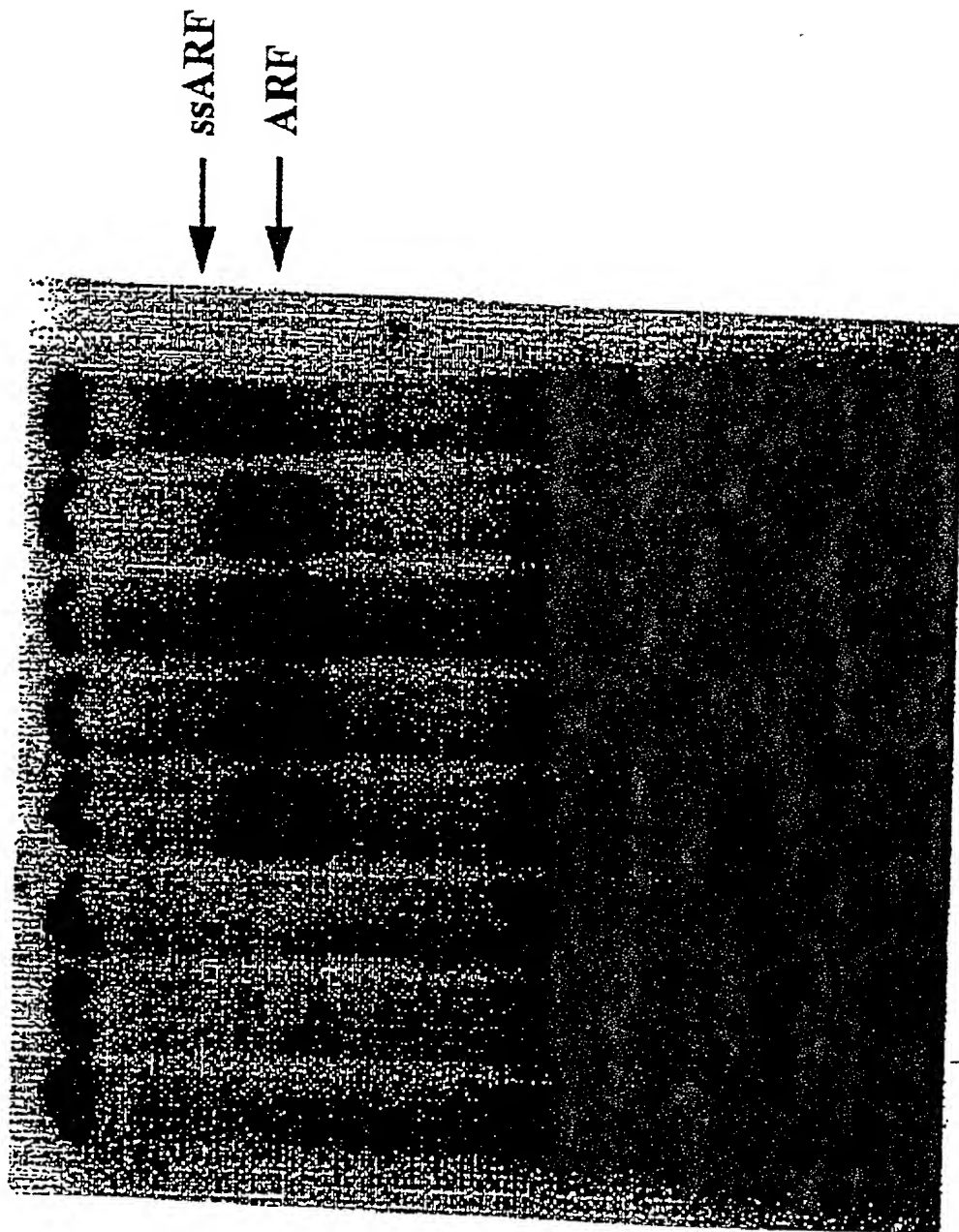


Figure 2

dot blot

Smad4	-	-	-	-	+	+	-
Smad4-HA	-	+	-	-	-	-	+
Activin	-	-	+	+	+	+	+
Anti-HA antibody	-	-	+	-	+	-	+



### Figure 3

## Anti-Myc antibody

## Anti-HA antibody

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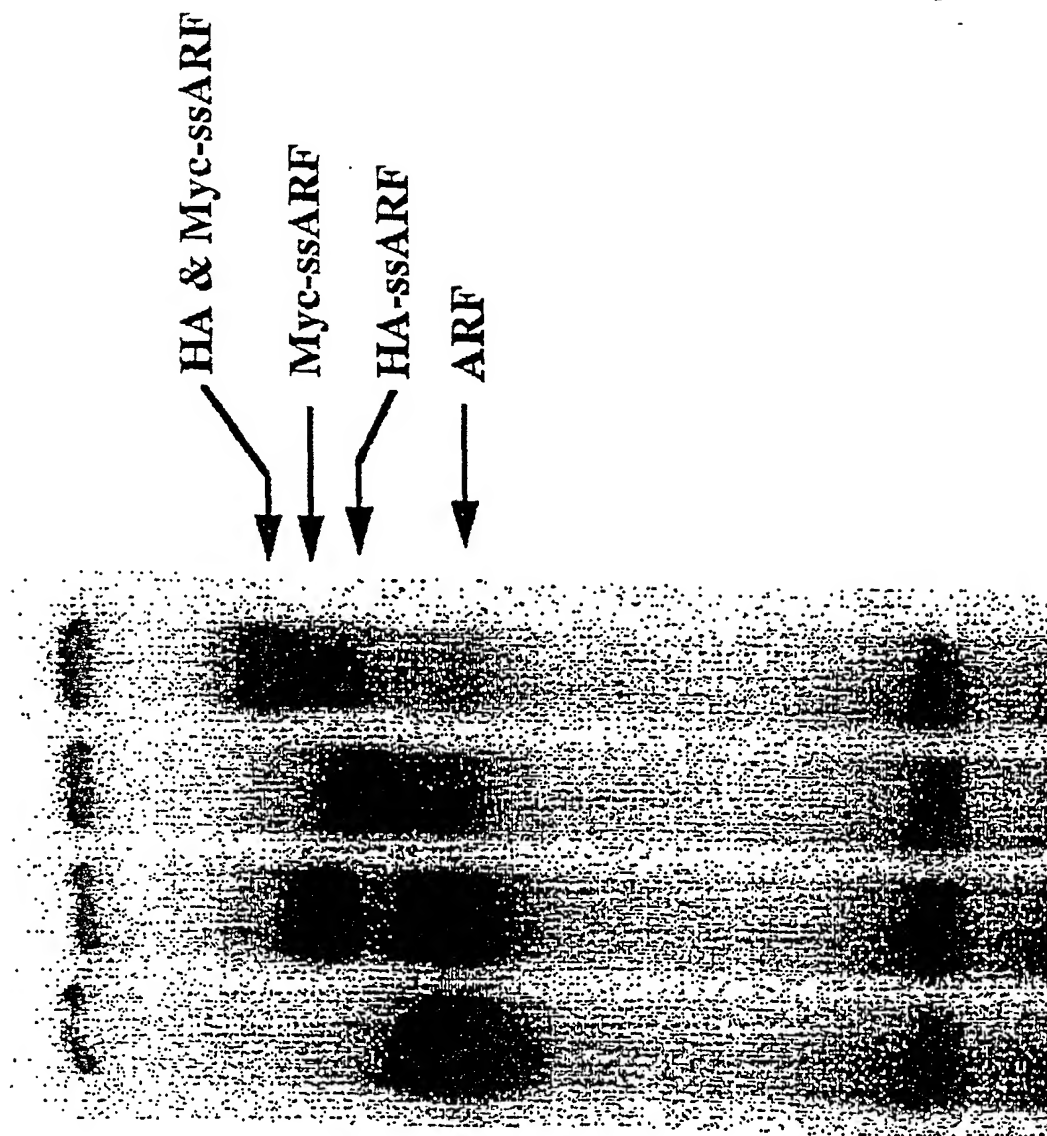
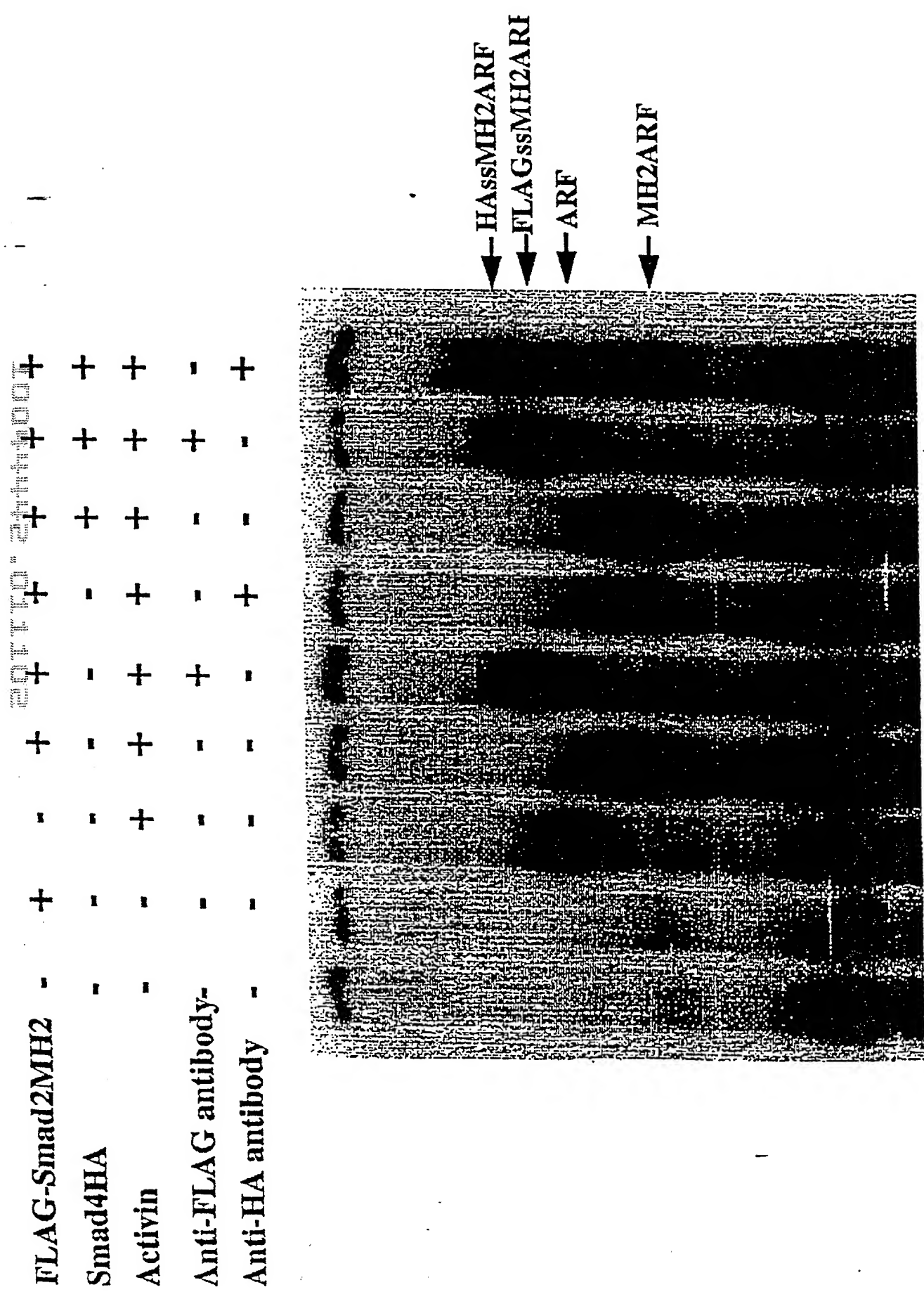



Figure 4

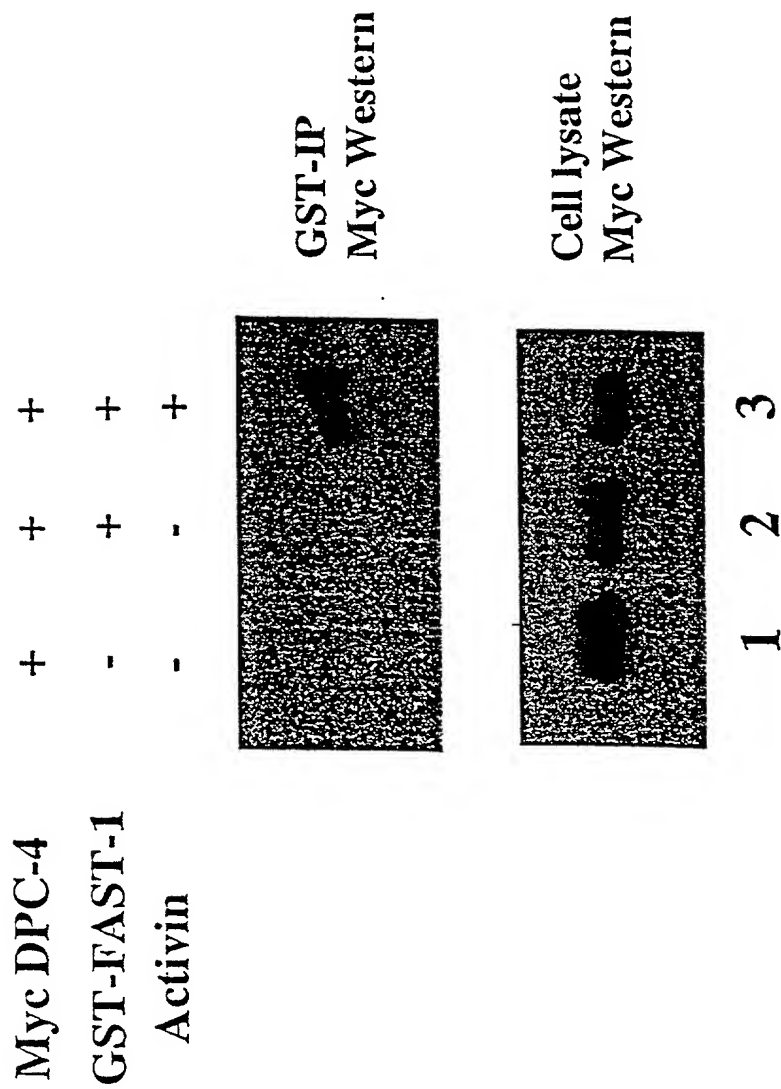


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1	1	1	1	1	1	1	1
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4	1	1	1	1	1	1	1
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6	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1

Figure 5B continued



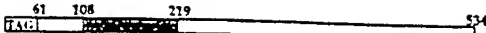


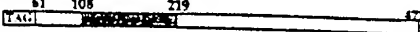
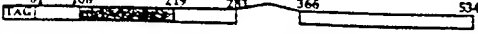
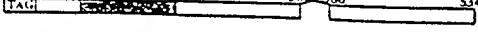
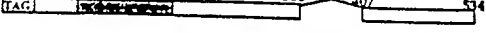

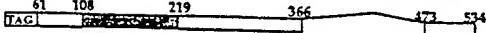

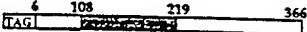

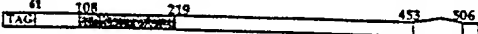
	ARF/ARE Formation	Smad2 Ass-Act	ation +Act	DPC4 Association +Act
61-534: 	+++	+	+++	+++
Δ516-534: 	+++	+	+++	+++
Δ506-534: 	+++	+	+++	+++
Δ473-534: 	-	-	-	-
Δ281-366: 	+++	+	+++	+++
Δ366-380: 	+++	+	+++	+++
Δ366-407: 	-	+	+++	-
Δ207-453: 	-	+	+++	-
Δ366-473: 	-	+	++	-
Δ1-366: 	-	+	+++	+++
Δ366-534: 	-	-	-	-
Δ380-407: 	-	+	+++	-
Δ453-506: 	-	-	-	-

Figure 6B

Summary:

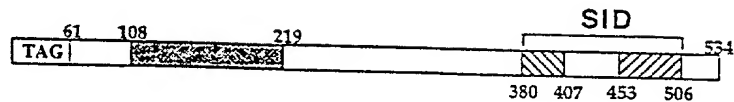
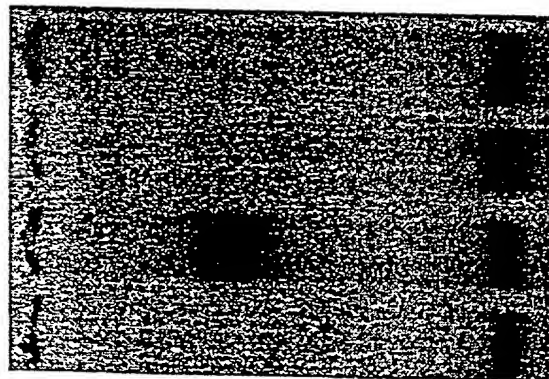


Figure 7

FAST-1 366-534 - - + +

Activin - + + -



1 2 3 4



Figure 8A

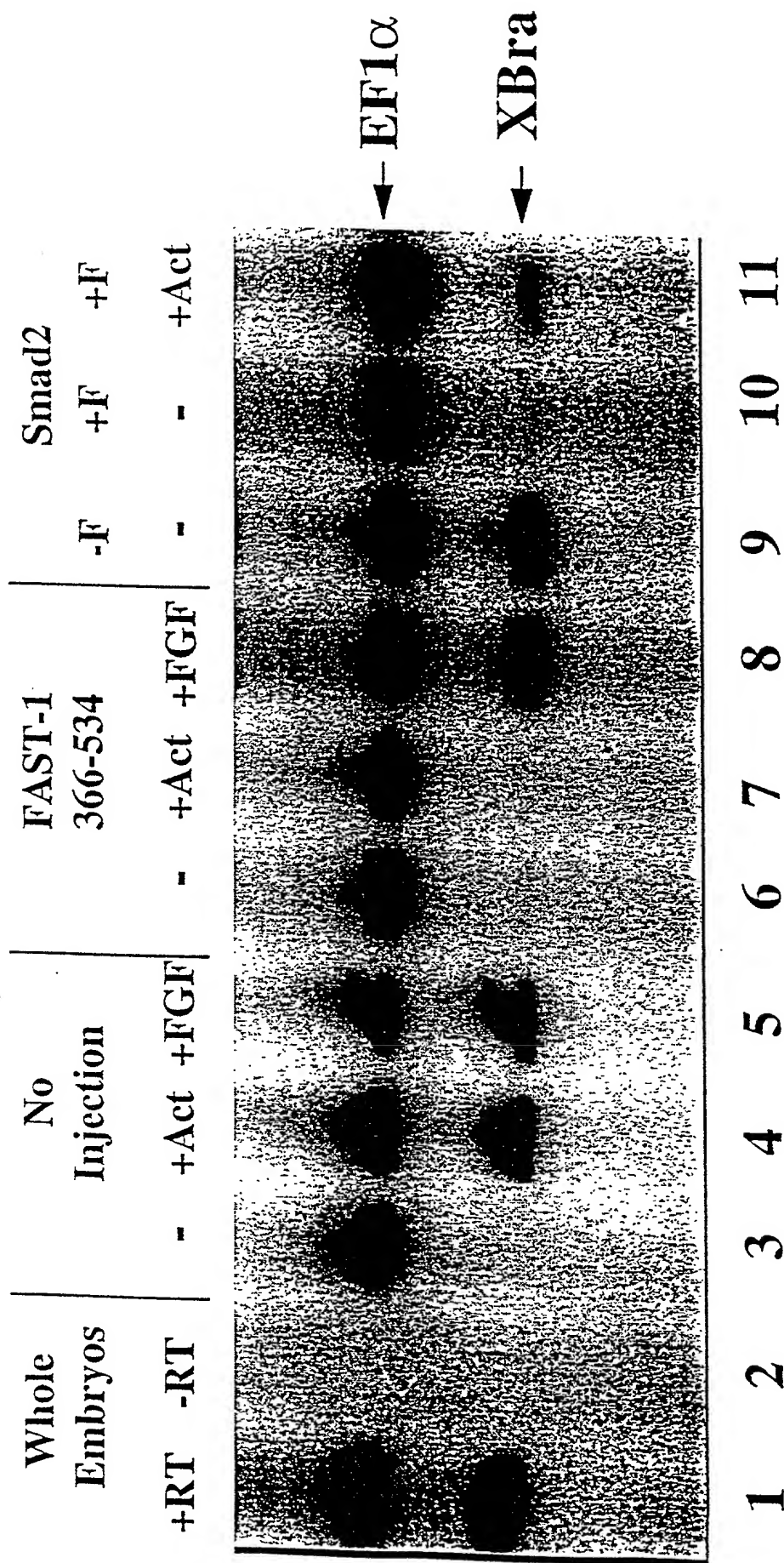
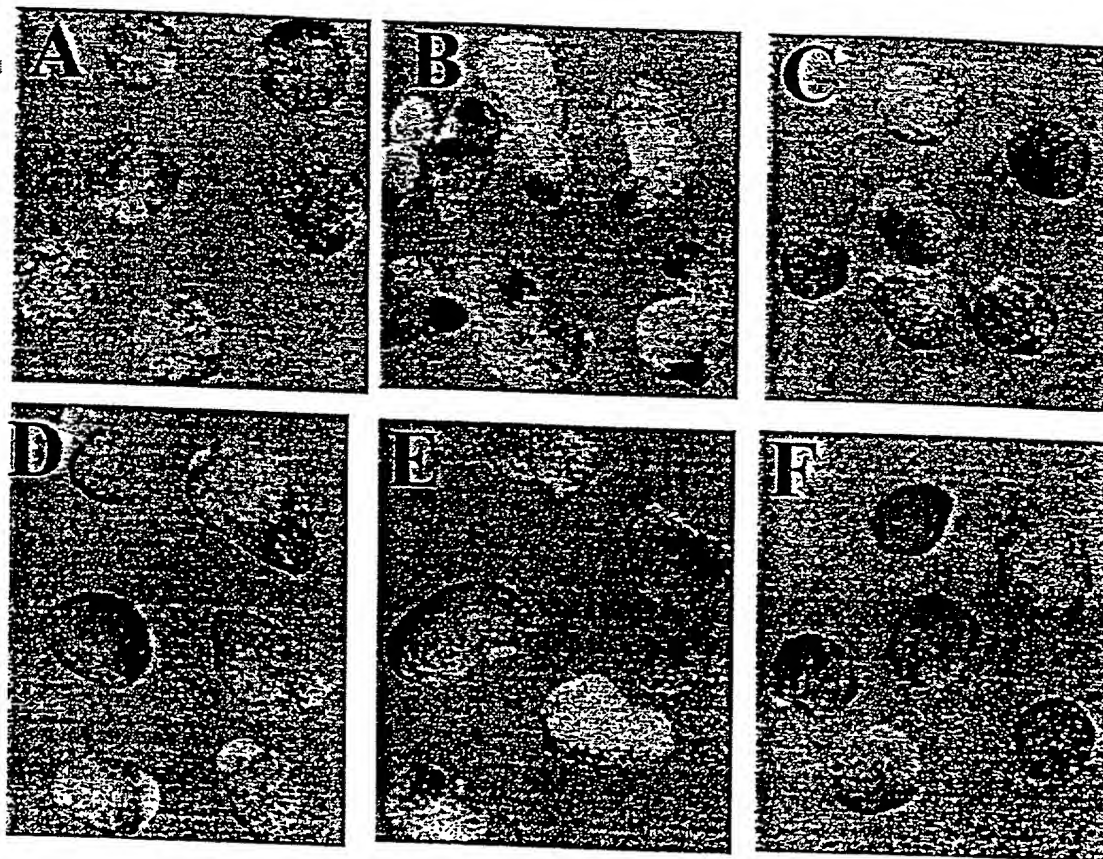


Figure 8B



20110101 14:44:00



1 M - - - - - human FASTII protein sequence  
 1 M - - - - - mouse FASTII protein sequence  
 1 M R D P S S L Y S G F P A G S Q Y E S V E P P S L A L L S S xenopus FASTII protein sequence

2 - - - - - human FASTII protein sequence  
 2 - - - - - mouse FASTII protein sequence  
 31 I D Q E Q L F V A T G Q S Y N H S V Q P W F Q P W P P L S L xenopus FASTII protein sequence

2 - - - - - G - - - - human FASTII protein sequence  
 2 - - - - - A S G W D L A mouse FASTII protein sequence  
 61 Y R E G G T W S P D R G S M Y G L S P G T H E G - - - - xenopus FASTII protein sequence

3 - - - - - F C S G S R - - - human FASTII protein sequence  
 9 S T Y T P T T P S P Q I A L A P A Q G Y L P C M G P R D N S mouse FASTII protein sequence  
 85 - - - - - S C T H T H - - - xenopus FASTII protein sequence

9 - L G P P E - - A E S P S Q P P K R R K K R Y L R H D K P P human FASTII protein sequence  
 39 Q L R P P E - - A E S L S K T P K R R K K R Y L R H D K P P mouse FASTII protein sequence  
 91 - E G P K D S M A G D Q T R S R H S K K E N H H R Y N K P P xenopus FASTII protein sequence

36 Y T Y L A M I A L V I Q A A P S R R L K L A O I I R Q V Q A human FASTII protein sequence  
 67 Y T Y L A M I A L V I Q A A P F R R L K L A - - - Q V Q A mouse FASTII protein sequence  
 120 Y S Y L A M I A L V I O N S P E K R L K L S Q I L K E V S T xenopus FASTII protein sequence

66 V F P F F R E D Y E G W K D S I R H N L S S N R C F R K V P human FASTII protein sequence  
 93 V F P F F R D D Y E G W K D S I R H N L S S N R C F H K V P mouse FASTII protein sequence  
 150 L F P F F N G D Y M G W K D S I R H N L S S S D C F K K I L xenopus FASTII protein sequence

65 K D P A K P Q A K G N F W A V D V S L I P A E A L R L Q N T human FASTII protein sequence  
 123 K D P A K P Q A K G N F W A V D V S L I P A E A L R L Q N T mouse FASTII protein sequence  
 180 K D P G K P Q A K G N F W T V D V S R I P L D A M K L Q N T xenopus FASTII protein sequence

126 A L C R R W Q N G G A R G A F A K D L G P Y V L H - - - - human FASTII protein sequence  
 153 A L C R R W Q N R G T H R A F A K D L S P Y V L H - - - - mouse FASTII protein sequence  
 210 A L - - - - - T R G G S D Y F V Q D L A P Y I L H N Y K Y E xenopus FASTII protein sequence

151 - - G R P Y R P P S P P P P P S E - - - - human FASTII protein sequence  
 178 - - G Q P Y Q P P S P P P P P R E - - - - mouse FASTII protein sequence  
 235 H N A G A Y G H Q M P P S H A P S L S L A E D S Q Q T N T G xenopus FASTII protein sequence

166 - - - - - G F S I K S L L R R S G E - - - - G A P W P - - - human FASTII protein sequence  
 193 - - - - - G F S I K S L L G D P G K - - - - E S T W P Q H P mouse FASTII protein sequence  
 265 G K L N T S E M I D S L L H D L Q E V D L P D N S - R - - xenopus FASTII protein sequence

134 G L A P Q N S P V P A G - - - - - T G N N G E human FASTII protein sequence  
 214 G L P G Q S T A R Q A G - - - - - T L S K G E mouse FASTII protein sequence  
 291 N L E N Q R I S P A V A X X M V S S A P L L Y T H S K P T xenopus FASTII protein sequence

202 E A V P T E P P P S S E R P I W P L C P I P G P T R V E G E human FASTII protein sequence  
 232 E G M G T G P S S S S E T P L W P L C S L P G P T I I E G E mouse FASTII protein sequence  
 321 R N A R S E G L S T I H S T Y - - - - S S S S S S I S T I S xenopus FASTII protein sequence

232 T V I - - Q G G A X G P P S E A S L G P - G I S T T A G H R human FASTII protein sequence  
 262 S S - - Q G E V I R P S E V T P D Q G S W P L H L L E D S A mouse FASTII protein sequence  
 347 P V I G F Q K E Q E N S G R Q T Q R V G H - P I H R S R E D D xenopus FASTII protein sequence

Figure 10 (page 1 of 2)

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359 S S G G R S E G G H R A - - - - - L W G Q L human FASTI protein sequence
290 D S R G V P P R G S R A - - - - - L W G Q L mouse FASTI protein sequence
376 C S T T S E D P D T G . Y S P I E P P R K M P L L S L D L xenopus FASTI protein sequence
      Start Site
277 P T S Y L P I Y T P N V V M P L A P - - - - - human FASTI protein sequence
308 P T S Y L P I Y T P N V V M P L A T L P - - - - - mouse FASTI protein sequence
406 P T S Y T K S V A P N V T A P P S V L P F F H F P R F T Y Y xenopus FASTI protein sequence
      Start Site
296 - - - P T S C P Q C P S - - - S P A Y W G - - - - - human FASTI protein sequence
329 - - - T T S C P Q C P S S A S P A Y W S - - - - - mouse FASTI protein sequence
436 N Y G E S - - - - - P Y - K T P P Y N E F F H P T M S G G D xenopus FASTI protein sequence

315 E T R G P P G L L C D L M A L F Q G V P P N K S I Y D V W V human FASTI protein sequence
348 E S Q G S Q D L L C D L D S L F Q G P P N K S I Y D V W V mouse FASTI protein sequence
460 S P R G P Q S P L - D L D N M L R A M P P N K S V F D M L T xenopus FASTI protein sequence

345 S H P R D L A A P G - - - - - human FASTI protein sequence
378 S H P R D L A A P A - - - - - mouse FASTI protein sequence
439 S H E G D L V H P S F L S Q C L G S S G S P T P S R Q G L M xenopus FASTI protein sequence

355 - - - - - P G W L L S W C S - - - L E human FASTI protein sequence
368 - - - - - P G W L L S W Y S - - - M E mouse FASTI protein sequence
519 Y R R R P P G - - - L T W S G H S M K Z xenopus FASTI protein sequence

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Figure 10 (page 2 of 2)